

Kannegiesser Laundry Technology



Washing

Extracting

Drying



Garment
Processing

Workwear



Flatwork
Processing



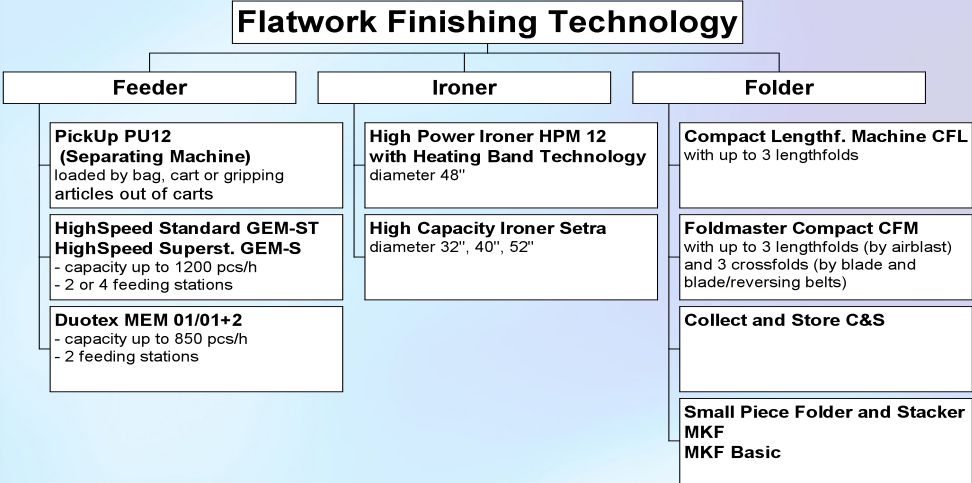
Technical
Support

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Kannegiesser Feeding Technology

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Overview



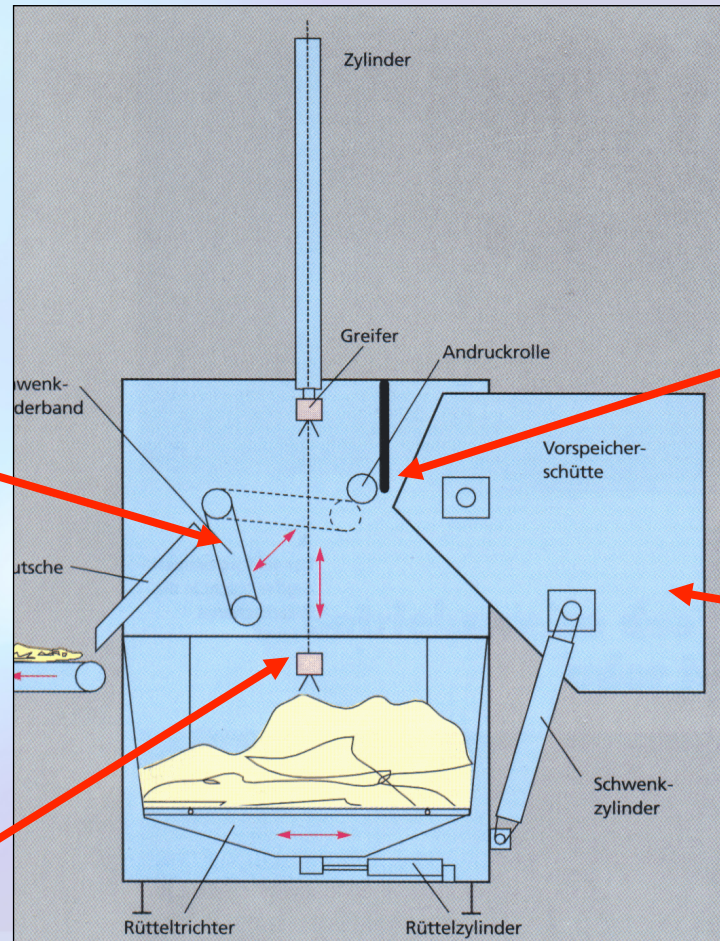
PU 12: Construction

Movable conveyor

Sensor-controlled Gripper

Pressure roller

Tilting Batch Storage



PU 12: Function



**Sensor-controlled gripper
takes out an item**



Item gets clamped



**Conveyor belt moves
against pressure roller
and pulls out the item**

PU 12



capacity: 1200 pcs/h

max. load: 165 lb

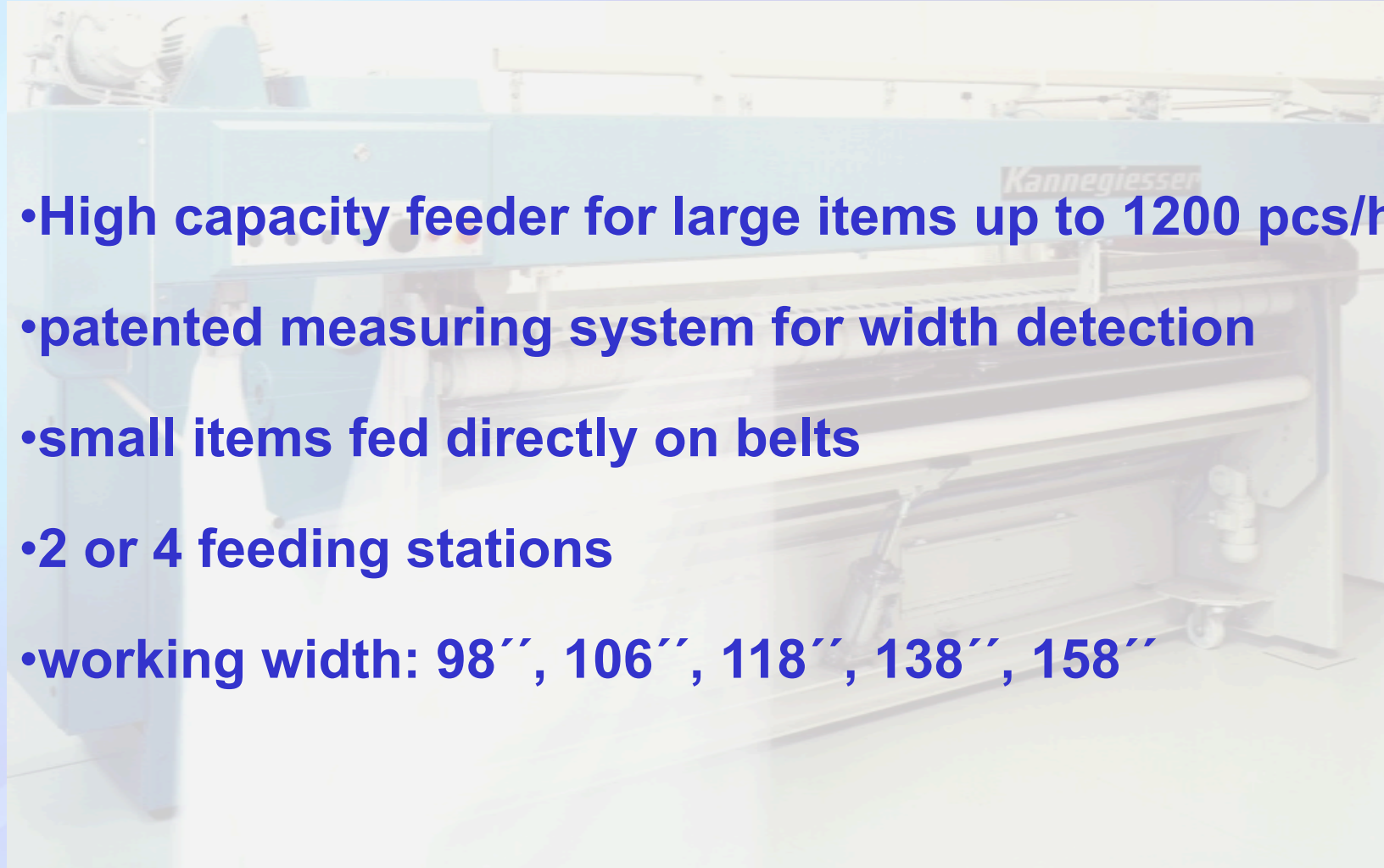
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PU 12 Loading

- Loading by:
- tilting storage chute, loaded by bags or belts
- direct unloading from the cart with double gripper
- Optimum Linen Separation in an ergonomic work position
- High Performance due to short work ways
- Careful breaking of the load – the item is pulled out of the batch between pressure roller and conveyor belt
- Low Space Requirements

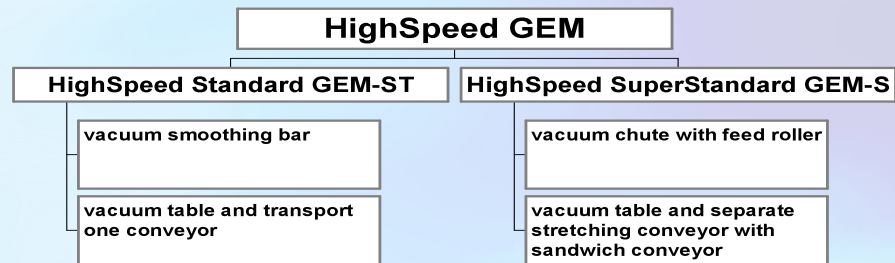
HighSpeed GEM



- High capacity feeder for large items up to 1200 pcs/h
- patented measuring system for width detection
- small items fed directly on belts
- 2 or 4 feeding stations
- working width: 98'', 106'', 118'', 138'', 158''

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Comparison GEM-ST GEM-S



Spreading Technology



- Clamping of 2 corners
- Measuring device moves through the item
- First clamp starts
- Spreading width is calculated
- Second clamp starts (with own drive)
- Exact and quick positioning at the centre of lane
- Careful, defined spreading
- Depositing of the item
- Clamps return to loading positions

Spreading Technology: Measuring System



a: known

**b: distance clamp 1 +
clamp distance**

$$c^2 = a^2 + b^2$$

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Spreading Technology: Operation Modes

1-lane Operation



2-lane Operation

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Spreading Technology: Operation Modes



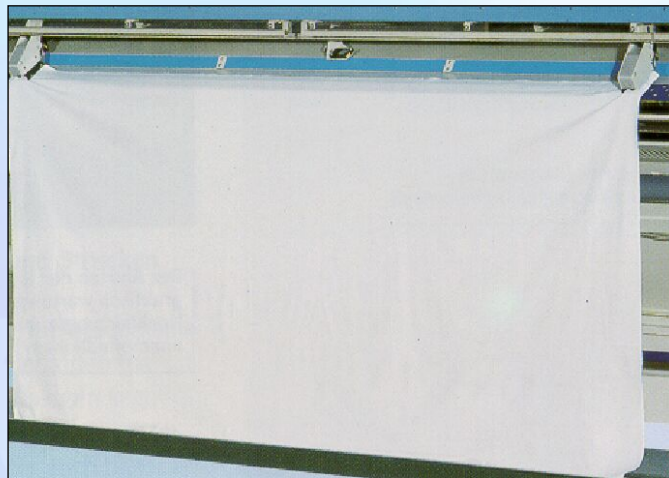
2-lane synchronous feeding (optional)

- High Performance by synchronous depositing of 2 items
- Optimal ironer utilization

Spreading Technology: Operation Modes

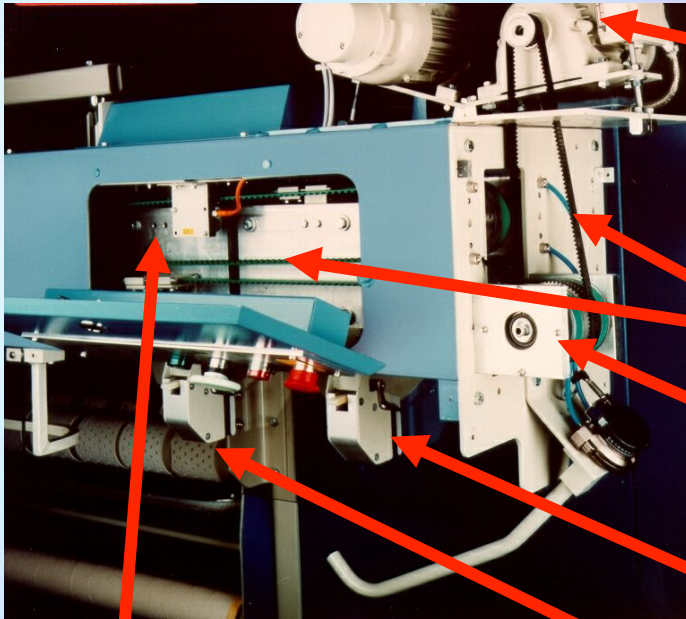


- automatic 1- and 2- lane operation (optional) corresponding to measured width



- **Mixed items can be fed without prior sorting in 1- and 2- lane operation**

Spreading Technology: Clamp Drive



**Round Profile
and large rollers**

**separate drive for each clamp
in operation controlled by
frequency inverter**

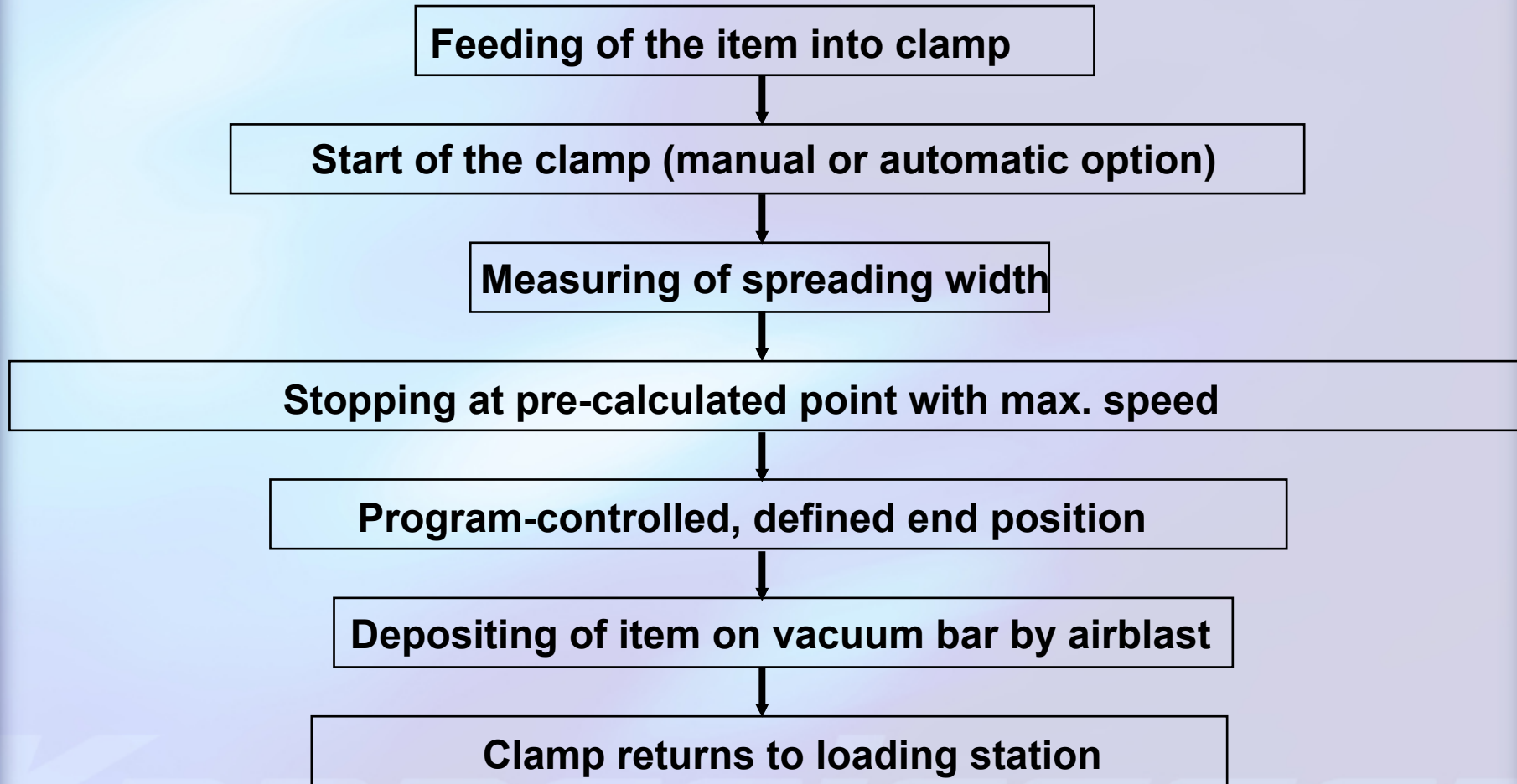
Maintenance-free gear drive

**No wear and tear for couplings due to
changing the gear in neutral**

**Automatic clamp start
(optional)**

Single driven clamps

Spreading Technology: Chronological Sequence



Spreading Technology

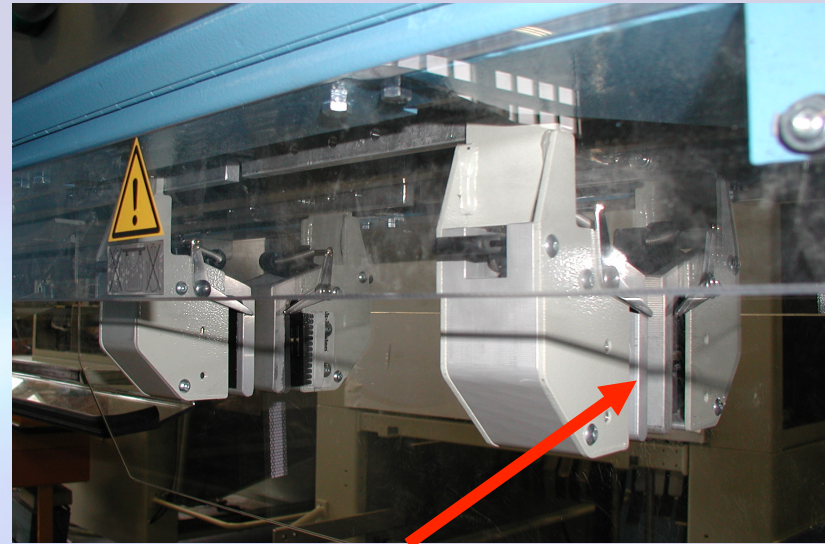
- **Principle:** “*First measuring, then spreading*”
 - **Gentle to fabric, as both clamps are motor driven and second clamp does not tear the item**
 - **Gentle to fabric due to pre-determined final spreading point**
 - **Short cycles, as clamps can be driven with maximum speed to final stopping point**
 - **High availability of clamps due to separate drive for each clamp**
 - **Labor saving due to automatic 1-/2-lane operation**
 - **Increased flexible due to many operational modes for large and small items**

Spreading Technology

- **Clamp Drive**
 - **Gentle to fabric; exact control of clamps by frequency controlled drive**
 - **Short cycles; optimum speed and braking of the clamps by frequency controlled drive**
 - **High Availability – low maintenance belt drive and wear and tear free coupling**
 - **High Availability – rounded pair profile – large rollers**

Depositing: oversized clamps

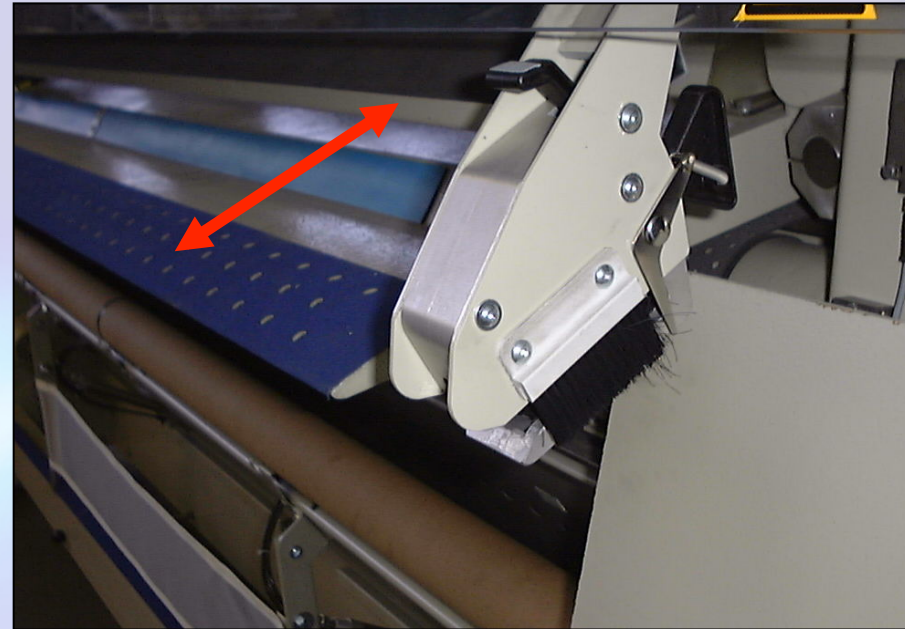
- Clamps enable a positive ergonomic feeding
- High moving speed ensures clamp availability
- Fully automatic, straight depositing



- Careful spreading even with thin fabrics
- No idle time for operators
- High quality and consistency by automatic depositing

Depositing: vacuum transfer bar

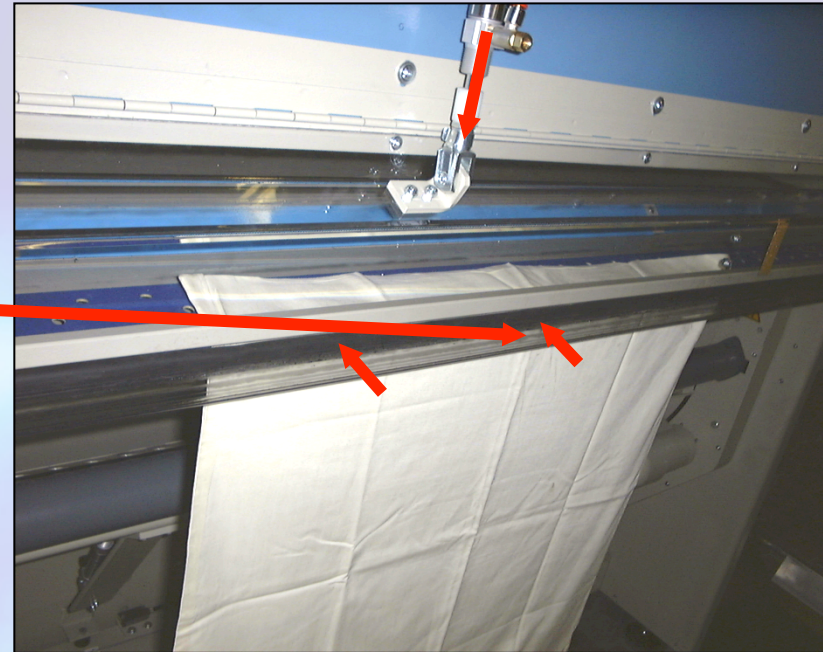
- strong, program-controlled vacuum in feeding area
- air blast assisted depositing onto vacuum transfer bar
- effective adhesive coating of transfer bar
- extremely high acceleration of the bar enables short cycles



- absolute straight edge depositing
- further improvement of clamp availability

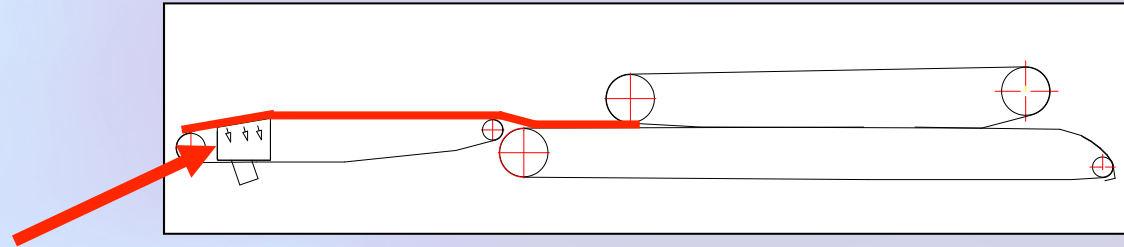
Depositing: leading edge clamping device

- Program-controlled clamping bar ensures quality for bed covers (hotel use), by pressing it against the transfer bar
- Prevents seam to “turn over”



- Increase in Quality; especially for hotel linen

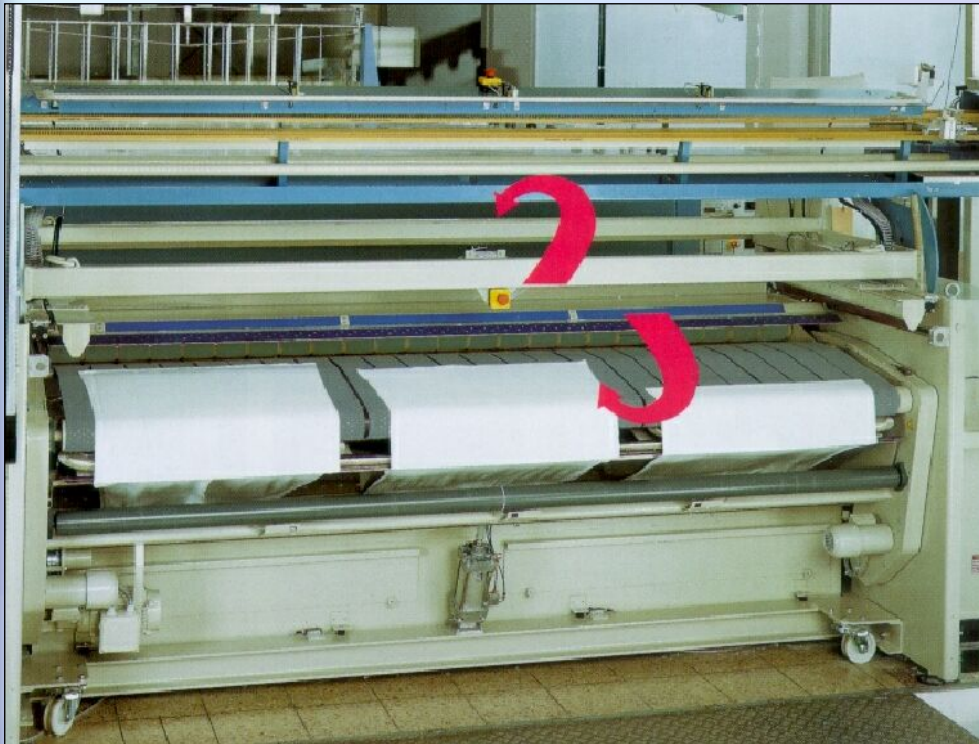
Depositing: Table Vacuum



- Perforated, gripping belts in the depositing area
- Strong vacuum zone
- Highly efficient vacuum by oversized radial fans
- Safe deposit and transport of heavy laundry pieces at high speeds
- Simple depositing for manual feeding

Movable Head

- Pneumatic lifting of the spreading head
- Lowering of the feeding table (HighSpeed GEM-S/AS)



- Small pieces can be fed manually onto tilted belts
- Optimum ergonomic feeding height by lowering the table (HighSpeed GEM-S/AS)

Depositing: Start-Stop Device for manual feeding (optional)



- Feeding Table Belts e stop automatically as long as the operator feeds the item on the belt.
- **Quality improvement for manual feeding**

Vacuum chute

Program-controlled feed roller

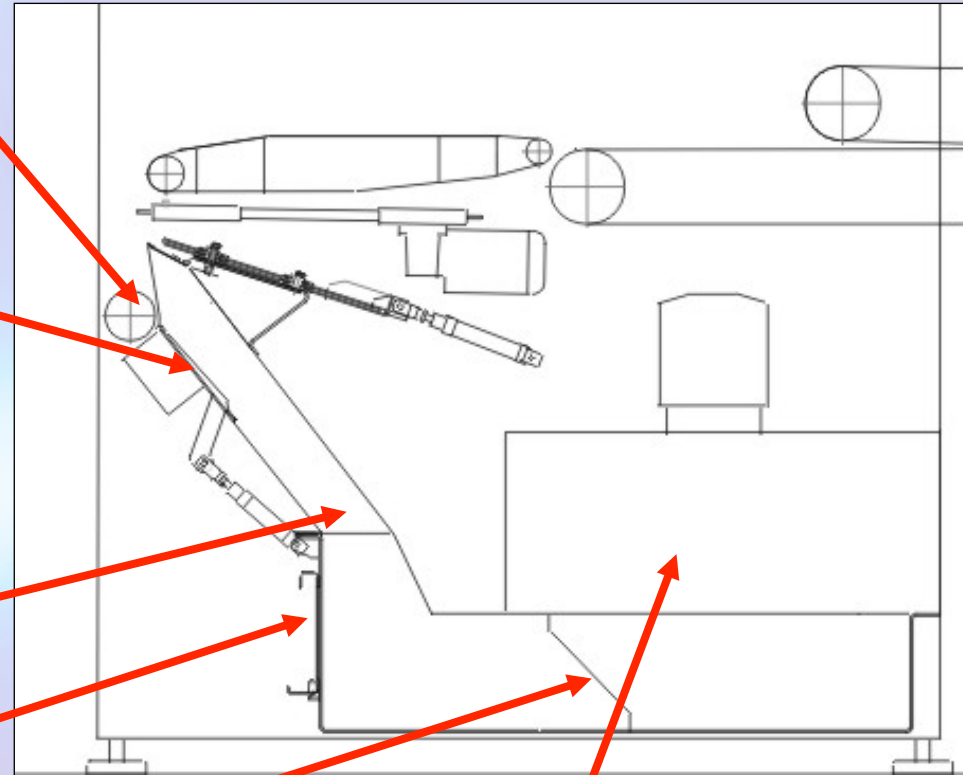
Safety flap for thickness recognition and increasing of the shaking out effect (optional)

optimum lay-out of suction chute

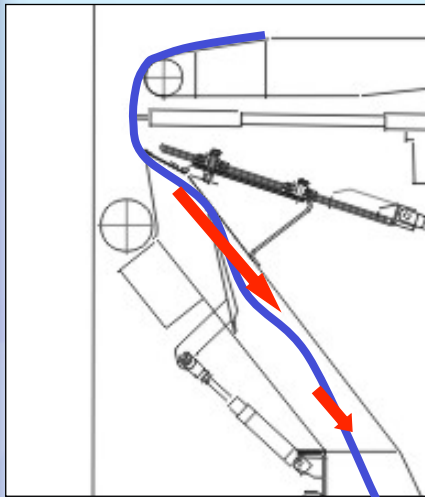
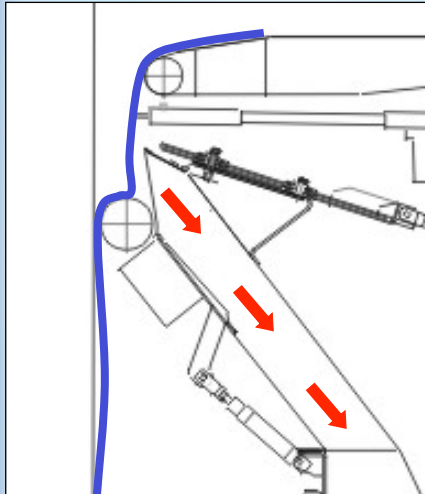
Maintenance door

Safety grid

Powerful radial fan



Vacuum chute



- **Excellent shaking-out-effect for sheets and bed covers by strong continuous air jet**
- **Stretching of the item lengthways by spreading device**
- **Increase of the shaking out effect (Optional flap)**
- **Oversized radial fan**

Spreading brushes

- Brushes operating directly underneath table vacuum
- Smooth nylon brushes take out the creases crossways to running direction
- Brushes are designed for multi-lane operation

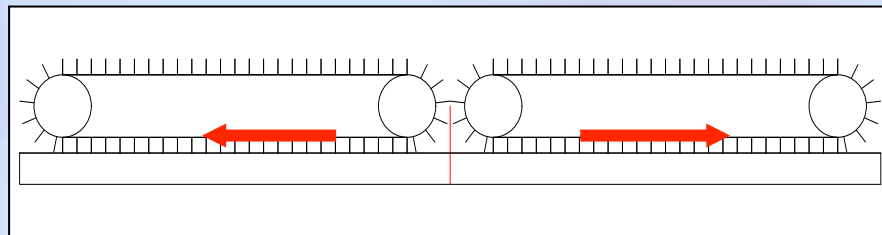
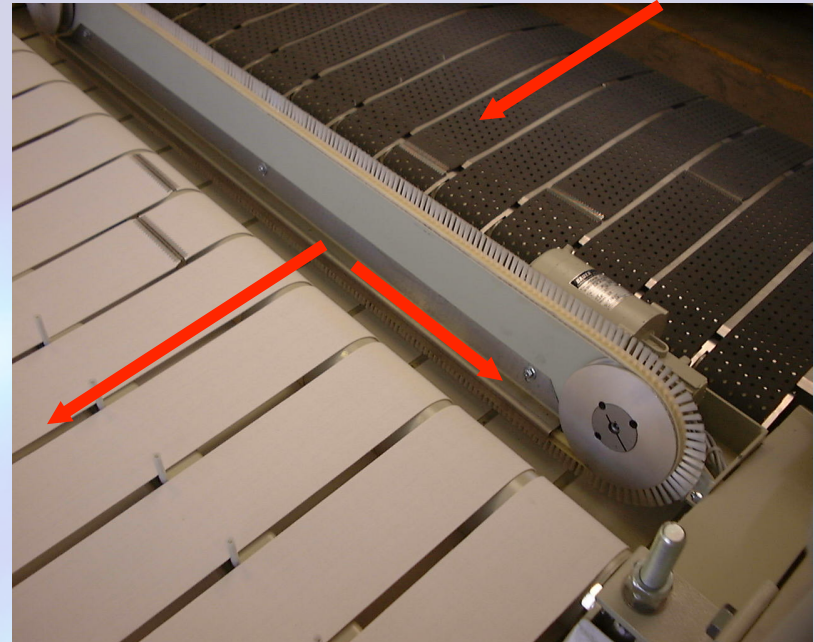


- **Consistent high quality through overlapping brushes**

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Processing: Upper Brushes (optional)

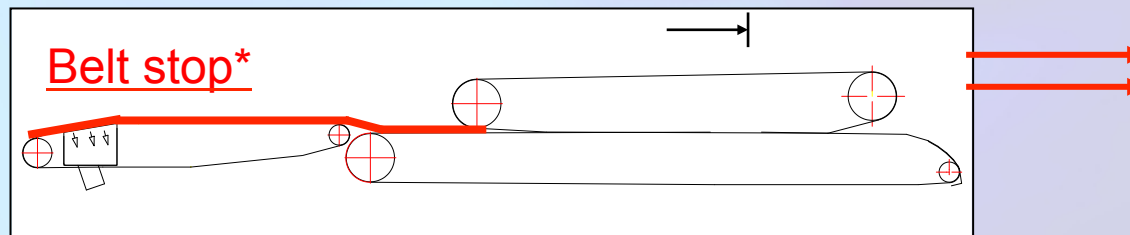
- Upper brushes ensure flattening of seams
- available as option for model MEM 01+2 in 1- and 2-lane operation



- **Consistent Quality**

Function of stretching conveyor*

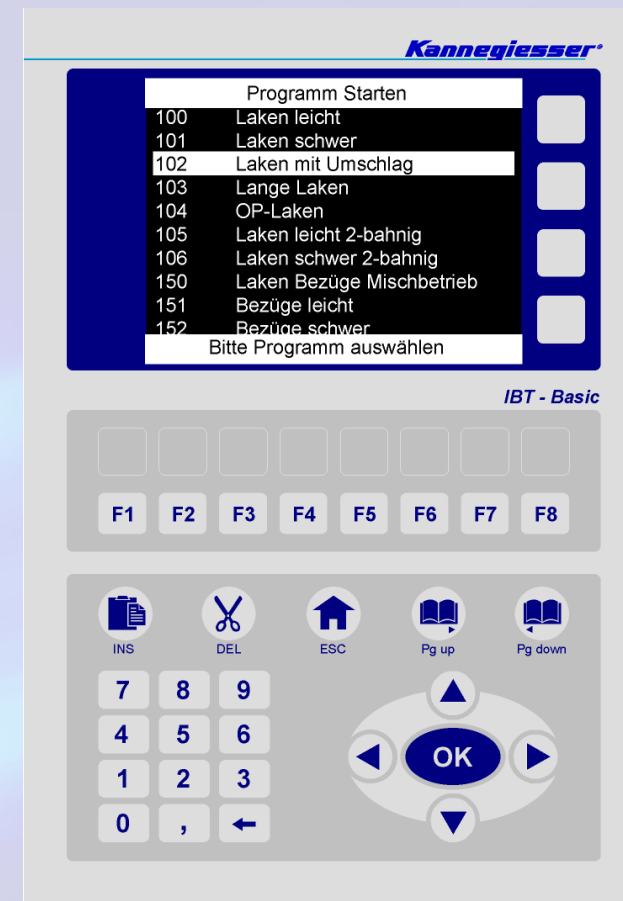
- Table belts hold the item (belt stop), while transport and sandwich belts are moving
- Result: exact processing of leading edge



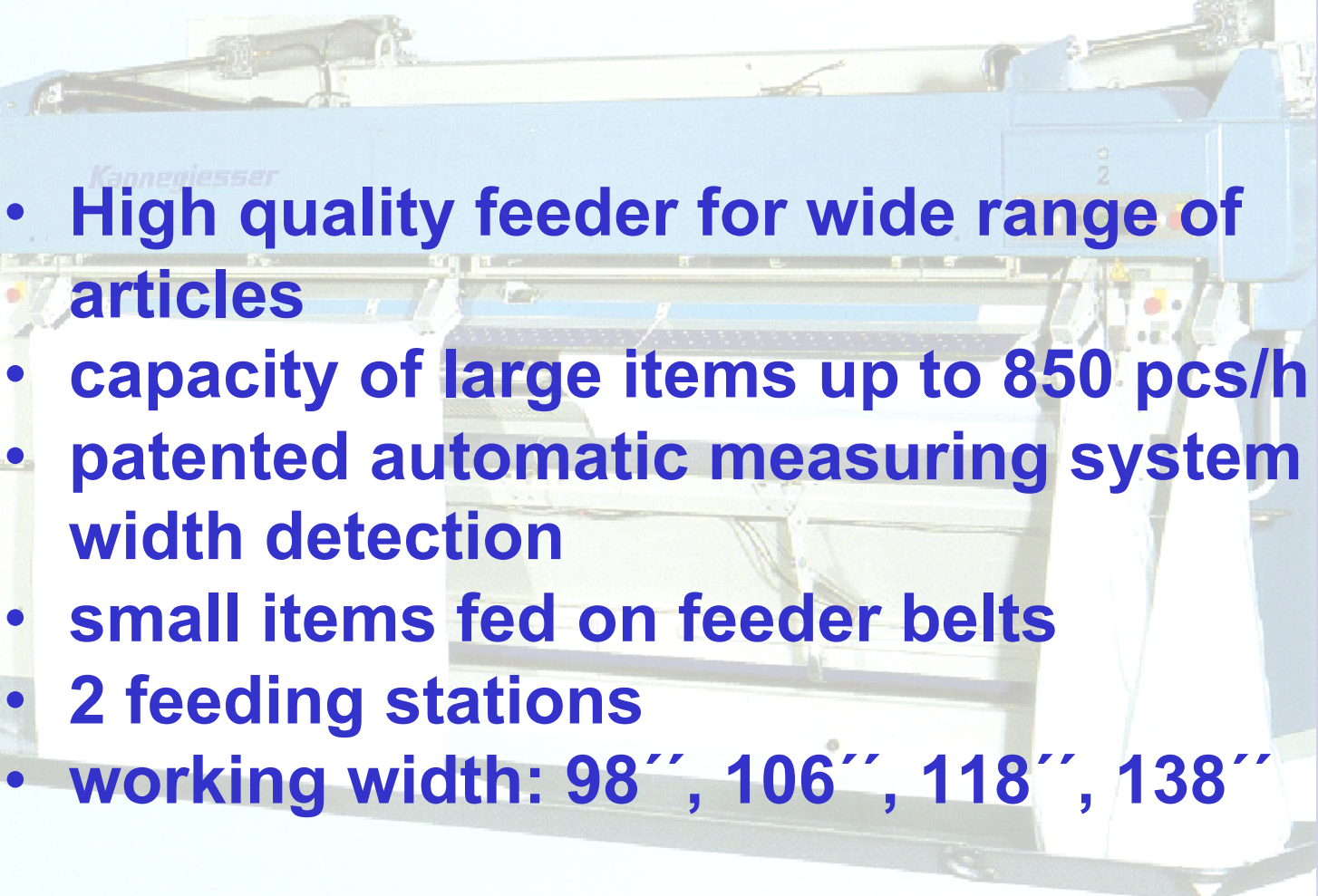
- Important increase in quality with constant high performance

Integrated Operation Panel - IBT basic

- Microprocessor-controlled PC-unit with access to complete operation parameter
- Screen displaying clear text of operation-related data (program number, customer name, classification, etc.)
- Menu-controlled user guidance
- High flexibility through easy program dial-up
- High availability by fast fault finding on screen

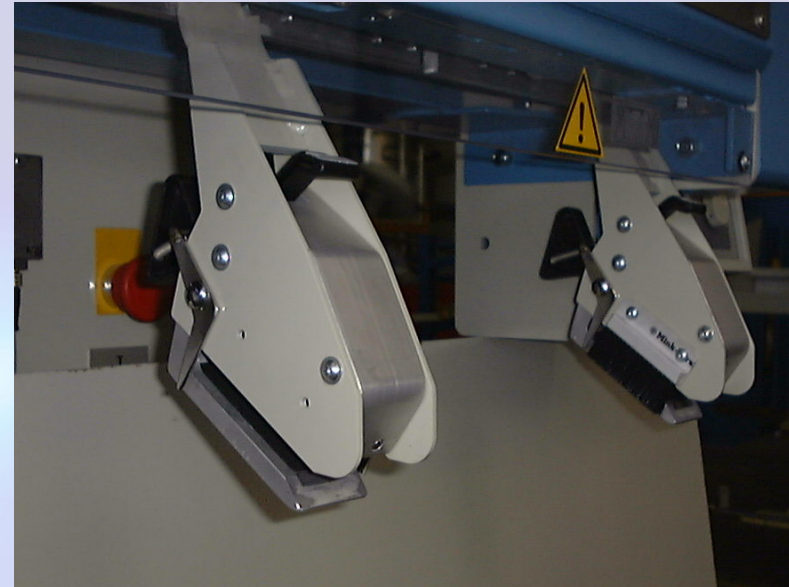
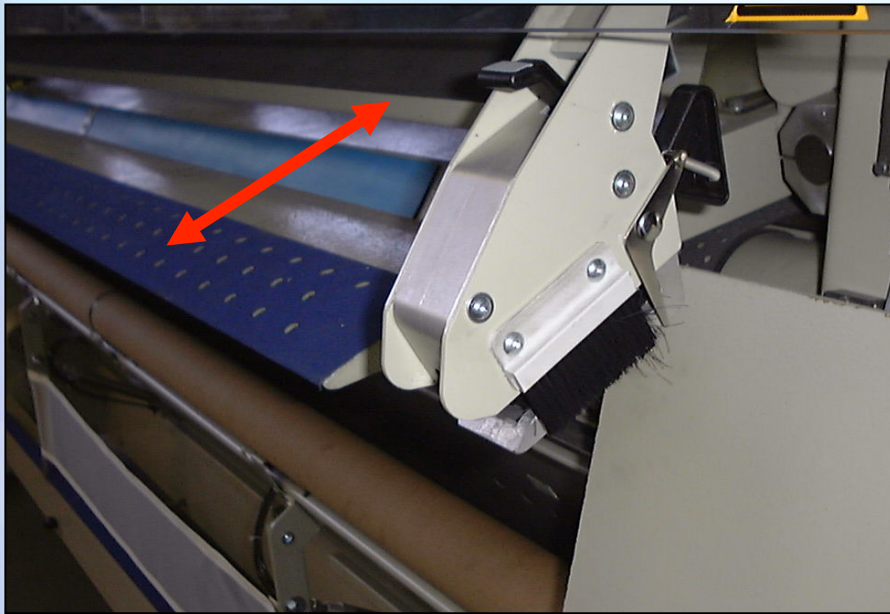


Duotex MEM

- 
- High quality feeder for wide range of articles
 - capacity of large items up to 850 pcs/h
 - patented automatic measuring system for width detection
 - small items fed on feeder belts
 - 2 feeding stations
 - working width: 98", 106", 118", 138"

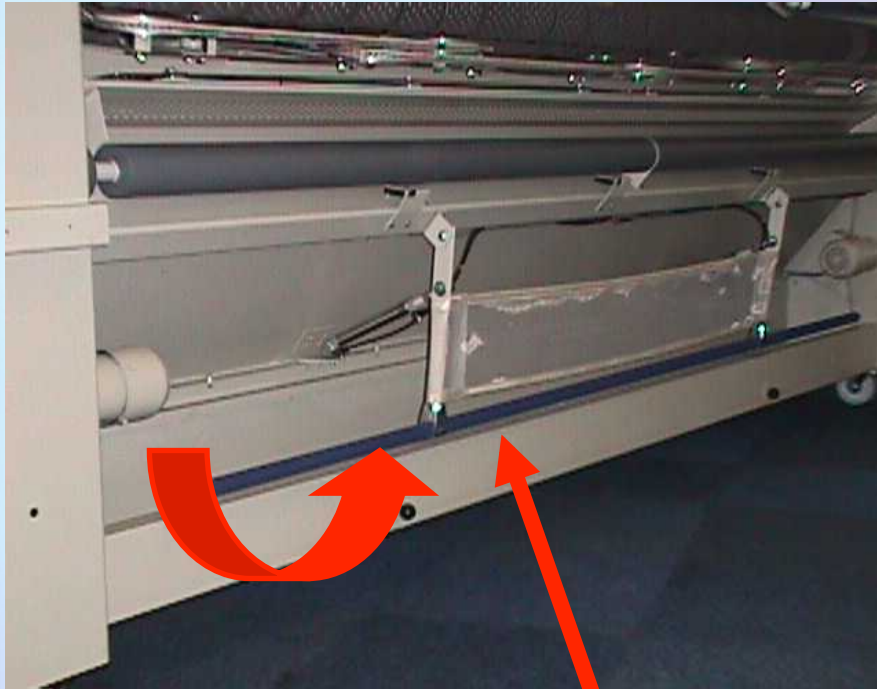
Clamps

clamps are specially designed to facilitate the depositing of high quality table linen



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Lifting bar and Start-Stop



Start-Stop same as
with GEM-S

- rotating lifting bar to support articles
- reducing weight on clamps, while item is deposited onto the vacuum bar

Duotex MEM

- Basically identical features as HighSpeed GEM-S
- Measuring system same as GEM
- Clampdrive same as MEM (except: 2 motors only)
- Table vacuum
- Movable rotating head
- Vacuum chute
- Stretching conveyor



Standard Features on GEM and MEM

- automatic speed adaption to ironer
- rotating spreading head to allow small piece feeding on perforated feed conveyor
- oversized vacuum on the feeding table
- oversized vacuum chute with controlled vacuum and feed roller (vacuum bar with HighSpeed GEM-ST)
- smoothing brushes between chute and table
- patented measuring system to detect spreading width of item
- AC frequency drive
- vacuum transfer bar with special coating
- high friction perforated belts
- separate stretching conveyor (not with GEM-ST)
- sandwich conveyor (not with GEM-ST)
- IBT Basic
- caster mounted

Kannegiesser Feeding Technology

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